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THORNE & DERRICK UK
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Communication securely and understandable

Headsets for hazardous areas.

The effective use of resources is a fundamental key to the success of a company. Clear and targeted communication is a very important factor in this regard.

One such aspect is the use of modern facilities to relay information and instructions between the sender and the receiver in a reliable manner.

What is a problem, however, is the comprehensible transmission of the message. The correct volume is a factor. Another is the phonetically correct transmission of what is being said. It depends on whether the consonants can be transmitted and heard clearly and cleanly. Sounds such as "s, f, g, t, p, h, k and z" are particularly critical. These occur in the upper frequency range and can be hard to understand, or not heard at all, especially amidst a cacophony of voices or background noise. "care" or "bear" becomes "air" or "shine" becomes "nine" or "sign". This not only creates unpleasant situations; such misunderstandings in the operational environment can sometimes lead to hazardous situations. Without the correct equipment it is often virtually impossible to ensure a proper flow of information.

High-quality headset systems can help to avoid or defuse such situations. These transfer the sound to exactly where it is needed. Close to the ear. Moreover, these headsets are specialist devices in their field. They have been specifically developed and designed to ensure maximum quality reproduction, especially in noisy environments. Accurate voice transmission is just one reason why the use of headsets is worthwhile. Legislation does not prescribe the use of a hands free device or a headset when driving vehicles for nothing. Thanks to its technical components a headset fulfils the same tasks as a telephone receiver.



The advantage lies in the fact that both hands are kept free. The headset user has the use of both hands during a conversation and does not have to worry about his phone or radio, meaning he can concentrate on the conversation and his activity at hand.

Headsets

Ex-TRA 80* Aurelis	Lite-Com Pro	ComCom Ex	Serenity SPC Ex
Page 15	Page 16 - 17	Page 18	Page 19
Ex-TRA 300 PTT-E/PTT-EH	Ex-TRA 300 neckband	Ex-TRA 300 fire talk	Ex-TRA 300 fire talk supra
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Intrinsically safe communication headset Lite-Com Pro II

The intrinsically safe Lite Com Pro II is a hearing protection with a built-in radio. The device is dedicated for use in extremely harsh and noisy environments and fulfills all requirements for absolutely safe communication. Simultaneously it protects you from harmful noise.



- Two in one - Combination of radio & ear protection
- Easy to handle
- Reliable and professional communication system
- Brilliant and clear communication in noisy environment
- Perfect sound quality and wearing comfort
- Warning in case of low battery
- PTT button for easy and quick activation of voice transmission
- VOX functionality for unrestricted movement

Ex-Data:

ATEX:

⊗ II 1G Ex ia IICT4 Ga

⊗ II 1D Ex ia IICT130°C Da

⊗ I M1 Ex ia I Ma

IECEx:

Ex ia IICT4 Ga

Ex ia IICT130°C Da

Ex ia I Ma



















Despite the immense sound absorption you are always able to perceive your environment, e.g. warning signals, machine noise, other important information. This is possible due to two integrated exterior microphones. The speaker microphone is adjustable to your needs and has a noise reduction for clear communication. For hands-free communication you can use the VOX-Function and during enormous external noise pollution the PTT button enables reliable communication.

All your settings can be done with three buttons and with the new Lite Com Pro II you can use a wider frequency range (403-470MHz) than before.

Technical data

Frequency range	403-470 MHz
Channel separation	12,5 kHz / 20 kHz / 25 kHz
Channels	Up to 30
Outreach	Approx. 3 km
Output power	200 / 20 / 10 mW
Ambient temperature	-20 ... +50 °C
Operating time	ca. 14 hours (high output power)
Power supply	1,350 mAh Li-Ion battery
Charging time	Approx. 10-12 hours
Weight	Approx. 540 g
Attenuation:	
Headband/Neckband:	SNR 31 dB
Helmet adapter:	SNR 30 dB

Types and accessories for headset Lite-Com Pro II

Different versions				
 Headband Art.-Nr.: AS000231	 Neckband Art.-Nr.: AS000232	 Helmet adapter Art.-Nr.: AS000233		
Spare battery	Charging cable	Charging plug		
 Battery Peltor ACK08 Art.-Nr.: A0000568	 Charging cable DEAL2AH for ACK08 Art.-Nr.: A0000569	 Charging plug FR08 f. ACK08 (incl. internat. adapter kit) Art.-Nr.: A0000570		
Microphones				
 Microphone electret MT53N-12 Art.-Nr.: A0000247	 Microphone dynamic MT7N-02 Art.-Nr.: A0000252			
General accessories				
 Clean hygiene interface ear cup, one-way use HY100A Art.-Nr.: A0000246	 Hygiene kit HY79 Art.-Nr.: A0000417	 Microphone protection HYM1000 Art.-Nr.: A0000248	 Helmet adapter Art.-Nr.: A0000432 - 436	 External PTT button FL5602-50 Art.-Nr.: A0000253
Wind muffler				
 Wind muffler f. dynamic microphone M40/1 Art.-Nr.: A0000249	 Wind muffler f. exterior microphone M60/2 Art.-Nr.: A0000250	 Wind muffler for microphone M995 Art.-Nr.: A0000428		